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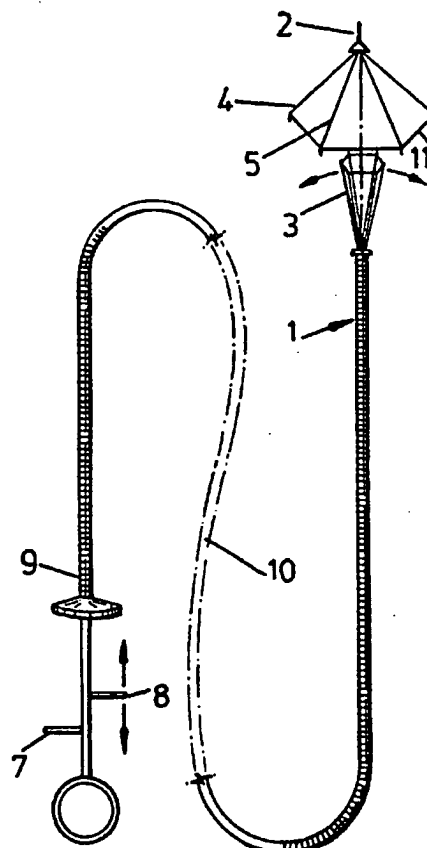
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61B 17/39, 17/22, 17/32	A3	(11) International Publication Number: WO 95/02371 (43) International Publication Date: 26 January 1995 (26.01.95)
(21) International Application Number: PCT/GB94/01537 (22) International Filing Date: 15 July 1994 (15.07.94) (30) Priority Data: 9314641.3 15 July 1993 (15.07.93) GB (71)(72) Applicant and Inventor: SALIM, Aws, Shakir, Mustafa [IQ/GB]; 2 Dene Walk, Bishopbriggs, Glasgow G64 1LQ (GB). (74) Agents: McCALLUM, William, Potter et al.; Cruikshank & Fairweather, 19 Royal Exchange Square, Glasgow G1 3AE (GB).	(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD). Published With international search report. (88) Date of receipt of the international search report: 9 March 1995 (09.03.95)	

(54) Title: RECTAL AND RECTOSIGMOID CANCER TUNNELLING UMBRELLA

(57) Abstract

The present invention provides a diathermy tunnelling umbrella device usable via the biopsy channel of an endoscope or through a proctoscope or a rigid sigmoidoscope. The device has remotely operable first and second opposed collapsible umbrella means with a diathermic distal end cutting and coagulating tip. A plurality of spaced apart diathermic cutting and coagulating spokes of the first umbrella means extend rearwardly from the tip towards the second umbrella means. The second umbrella means has a plurality of spaced apart diathermic cutting and coagulating spokes extending forwardly towards the first umbrella means. In use the device tip is advanced by diathermic cutting therewith into a growth with the umbrella means in substantially collapsed condition, at least one of the umbrella means is opened out by diathermic cutting of the spokes thereof generally radially outwardly into the growth, and the umbrella means manipulated by rotation and/or upward and downward movements for further diathermic cutting into said growth.



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INTERNATIONAL SEARCH REPORT

Inter national Application No
PCT/GB 94/01537

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61B17/39 A61B17/22 A61B17/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US,A,5 154 724 (ANDREWS) 13 October 1992 see abstract; figure 11 ---	1
A	US,A,4 976 711 (PARINS) 11 December 1990 see column 7, paragraph 2; figures 6,8,9 ---	1
A	US,A,3 874 388 (KING) 1 April 1975 see abstract; figure 9F ---	1
A	EP,A,0 189 329 (FISCHELL) 30 July 1986 -----	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex:

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Date of the actual completion of the international search

14 December 1994

Date of mailing of the international search report

23.12.94

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB94/01537

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 11
because they relate to subject matter not required to be searched by this Authority, namely:
see Rule 39.1 (iv) PCT
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 94/01537

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-5154724	13-10-92	NONE	
US-A-4976711	11-12-90	US-A- 5078717	07-01-92
		US-A- 5057107	15-10-91
		US-A- 5125928	30-06-92
US-A-3874388	01-04-75	NONE	
EP-A-0189329	30-07-86	NONE	